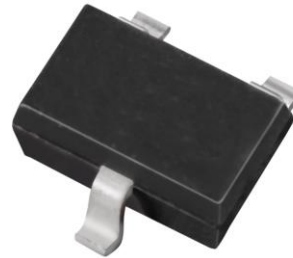
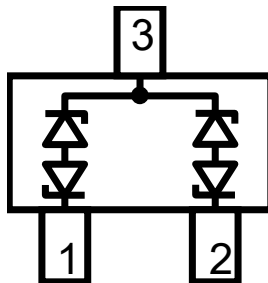




Vishay's New VCAN26 Bidirectional ESD Protection Diodes

Feature Compact SOT-323 Package

Offered in the compact SOT-323 package size, Vishay's new VCAN26B2 and VCAN26C2 diodes are dual-line bidirectional ESD protection devices that clamp positive and negative overvoltage transients to ground. Connected between the signal or data line and the ground, the ESD diodes offer high isolation with low leakage current and capacitance within the specified working range. The VCAN26**B**2 has been optimized for low capacitance, while the VCAN26**C**2 offers greater ESD immunity. Both devices are also available in AEC-Q101 qualified versions.



Device Specification Table

No.	Device Name	Package	Type	V_{RWM}	Capacitance $V_R = 5 V$	ESD-Immunity Contact Discharge
1	VCAN26B2-03G-E3	SOT-323	Commercial	$\pm 26.5 V$	3 pF	25 kV
2	VCAN26B2-03GHE3		AEC-Q101			
3	VCAN26C2-03G-E3		Commercial		5 pF	30 kV
4	VCAN26C2-03GHE3		AEC-Q101			



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Features

- Small SOT-323 package
- 2-line ESD protection
- Working range of ± 26.5 V
- Low leakage current I_R of < 0.05 μ A
- Low load capacitance C_D of 3 pF (typ. at $V_R = 5$ V) - **VCAN26B2**
- Low load capacitance C_D of 5 pF (typ. at $V_R = 5$ V) - **VCAN26C2**
- ESD immunity in accordance with IEC 61000-4-2
 - ± 25 kV contact discharge - **VCAN26B2**
 - ± 30 kV contact discharge - **VCAN26C2**
 - ± 30 kV air discharge
- ESD capability according to AEC-Q101:
Human body model: class H3B: > 8 kV
- e3 - pins plated with tin (Sn)
- AEC-Q101 qualified versions available
- AOI capable (AOI = automated optical inspection)

Applications

- For CAN-bus applications with flexible data rates (CAN FD)

Samples

Available at Vishay Sample Service Center (VSSC).

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